

ABSTRACT OF THE DISCLOSURE

A micro-optical component comprises an optical element for interacting with an optical beam and a mounting structure for attaching the optical element to an optical bench. This optical element is solid phase welded to the mounting structure. Solid phase welding has advantages in that it can be performed at lower temperatures than most soldering, even some eutectic soldering. Solid-phase welding, however, is much more robust during subsequent temperature cycling. This is especially important when the optical components undergo subsequent high temperature cycling.